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सं० 37] नई दिल्ली, शनिवार, सितम्बर 16, 1978 (भाद्रपद 25, 1900)

No. 37] NEW DELHI, SATURDAY, SEPTEMBER 16, 1978 (BHADRA 25, 1900)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

भाग III—खण्ड 2

PART III—SECTION 2

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

Notifications and Notices issued by the Patent Office relating to Patents and Designs

THE PATENT OFFICE

PATENTS & DESIGNS

Calcutta, the 16th September 1978

CORRIGENDA

(1)

In the Gazette of India, Part III, Section 2, dated the 31st December 1977, under the heading 'ALTERATION OF DATE'.

(1)

In page 1043, column 2, after line 4,
Insert "143612"

111/MAS/76 Post-dated 25th November 1976"

(2)

In page 1053, column 2, after line 7, against No. 143612—
Insert "Post-dated 25th November 1976".

(2)

In the Gazette of India, Part III, Section 2, dated the 4th March 1978, under the heading "COMPLETE SPECIFICATIONS ACCEPTED".

(1)

In page 168, column 1, line 1, against No. 143963—
for '14B & F' read '114B & F'

(2)

In page 171, column 2, line 2, against No. 143976—
for 'Int. cl.' read 'Int. cl. B01j 11/00'

(3)

In page 172, column 1, line 10, against No. 143980—
for 'No. 2047/Cal/76' read 'No. 2047/Cal/75'
247G1/78

(4)

In page 173, column 2, line 12, against No. 143985—
for 'No. 741/Cal/75' read 'No. 741/Cal/76'

(3)

In the Gazette of India, Part III, Section 2, dated the 11th March 1978, under the heading "COMPLETE SPECIFICATIONS ACCEPTED".

(1)

In page 182, column 2, line 1, against No. 143997—
for '6B' read '61B'

(2)

In page 187, column 1, line 2, against No. 144022—
for 'F28, 21/00' read 'F28d 21/00'

(3)

In page 189, column 2, line 5, against No. 144035—
delete 'INSTALLATION FOR ELECTROSLAG'

(4)

In page 190, column 1, line 3, against No. 144037—
for 'METALS' read 'MELTS'

(4)

In the Gazette of India, Part III, Section 2, dated the 18th March 1978, under the heading "COMPLETE SPECIFICATIONS ACCEPTED".

(1)

In page 198, column 1, against No. 144046—
delete the matter 'WS(&61)' below the No. 144046.

(5)

In the Gazette of India, Part III, Section 2, dated the 25th March 1978, under the heading "COMPLETE SPECIFICATIONS ACCEPTED".

(1)

In page 213, column 2, line 7, against No. 144083—
for 'filed November 1975' read 'filed November 14, 1975'

(2)

In page 217, column 1, line 3, against No. 144097—
for 'AOBTAINING' read 'OBTAINING'

(3)

In page 218, column 1, line 6, against No. 144104—
delete 'SELIEI AND WALTER NAGY'
Insert 'ARON UT 65, 1026 BUDAPEST, HUNGARY'.

(4)

In page 219, column 2, line 6, against No. 144110—
for 'P.O. DINDRI' read 'SINDRI'

(5)

In page 222, column 2, line 2, against No. 144124—
for 'Int. cl.' read 'Int. Cl. A-23-1 1/10'

A. 23. 1 1/10

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

10th August, 1978.

877/Cal/78. N. V. Philips' Glocilampenfabrieken. Low-pressure mercury vapour discharge lamp.

878/Cal/78. Indian Splicing (Mechanical) & Accessories Ltd. Crimping tool.

879/Cal/78. G. S. K. Steel Developments Limited. Rolling of steel strip.

880/Cal/78. Johnson & Johnson. Process of extruding a thermoplastic elastomer layer.

881/Cal/78. Johnson & Johnson. Pressure-sensitive adhesive compositions.

882/Cal/78. Europaische Atomgemeinschaft (Furatom). Thermal heat pump.

11th August, 1978.

883/Cal/78. Schweissindustrie Oerlikon Buhle AG. Method and apparatus for impulse welding with intermittent rod feed.

884/Cal/78. Dr. D. Baksi. Total elbow prosthesis.

885/Cal/78. Dr. Rathindranarayan Basu. Preservation of seeds by physico-chemical treatments.

886/Cal/78. Ammeraal Nederland B.V. A helical conveyor.

887/Cal/78. C. W. Pun and C. C. Poon. Batteries. (August 11, 1977).

888/Cal/78. Siemens Aktiengesellschaft. Printer synchronisation. (April 24, 1978).

14th August, 1978.

889/Cal/78. Hoechst Aktiengesellschaft. Process for the manufacture of fatty acid nitriles and glycerol from glycerides, especially from natural fats and oils.

890/Cal/78. Siemens Aktiengesellschaft. Rectifier arrangement.

891/Cal/78. Johns-Manville Corporation. Plastic pipe joint and method of making same.

16th August, 1978.

892/Cal/78. Saint-Gobain Industries. Manufacture of fibres from an attenuable material by means of gaseous currents.

893/Cal/78. Saint-Gobain Industries. Manufacture of fibres from an attenuable material by means of gaseous currents.

894/Cal/78. Saint-Gobain Industries. Manufacture of fibres from an attenuable material by means of gaseous currents.

895/Cal/78. Saint-Gobain Industries. Manufacture of fibres from an attenuable material by means of gaseous currents.

896/Cal/78. Saint-Gobain Industries. Manufacture of fibres by means of gaseous currents with economy of energy.

897/Cal/78. Ethicon Inc. Package for double-armed sutures.

898/Cal/78. Projectierung Chemische Verfahrenstechnik Gesellschaft Mit Beschränkter Haftung. Process for the production of sugars.

899/Cal/78. Chinoim Gyogyszer ES Vegyeszeti ter Mekek Gyara Rt. Pyrido/1, 2-a/pyrimidine derivatives, process for the preparation thereof and pharmaceutical compositions containing the same.

900/Cal/78. Proizvodstvennoe Obiedinenie Turbostroenie "Leningradsky Metallicheskij Zavod". Electro hydraulic speed governor for hydraulic turbine.

APPLICATION FOR PATENTS FILED AT THE (DFLH) BRANCH

26th July, 1978.

548/Del/78. Council of Scientific and Industrial Research. A new neutral bath for obtaining bright zinc deposits.

27th July, 1978.

549/Del/78. Miles Laboratories, Inc. Staining apparatus and method of using same.

550/Del/78. Sherrit Grodon Mines Limited. A process for the production of coin blanks suitable for minting into coins. (September 16, 1974) [Divisional date August 18, 1975].

551/Del/78. Metallurgical Processes Limited and I.S.C Smelting Limited. Improvements in or relating to the blast furnace smelting of zinc. (September 15, 1977).

28th July, 1978.

552/Del/78. Dr. S. R. Gupta. One hand operated control to drive automobiles by handicapped.

553/Del/78. Produits Chimiques Ugine Kuhlmann. Anod for diaphragm-less electrolyser.

554/Del/78. SodaStream Limited. Vantas machine. (July 29, 1977).

29th July, 1978.

555/Del/78. Director General, Research, Designs and Standards Organisation, Ministry of Railways. Steering arrangement for railway bogies.

556/Del/78. Director General, Research, Designs and Standards Organisation, Ministry of Railways. Railway bogies and more particularly to resilient mounting means between the bogie frame and the axle box.

557/Del/78. Director General, Research, Designs and Standards Organisation, Ministry of Railways. Steering arrangement for railway bogies.

558/Del/78. Council of Scientific and Industrial Research. A process for the preparation of new yellow to scarlet azo cationic dyes using para-amino-phenacyltrimethylammonium chloride as the diazo component for application to polyacrylonitrile fibres.

31st July, 1978.

559/Del/78. Director General, Research Designs and Standards Organisation (Ministry of Railways). A magnetic extensometer.

560/Del/78. Director General, Research Designs and Standards Organisation. (Ministry of Railways). An inclinometer.

561/Del/78. Union Carbide Corporation. Ethylene separation process.

562/Del/78. Bayer Aktiengesellschaft. Preparation of pigment concentrates.

563/Del/78. The Laitram Corporation. Bi-directional hinged conveyor belt.

1st August, 1978.

564/Del/78. Council of Scientific and Industrial Research. Improvements in or relating to a process for the preparation of reformation catalyst.

565/Del/78. Charcon Tunnels Limited. Improvements in or relating to wall segments. (August 16, 1977).

566/Del/78. Ferodo Limited. Improvements in or relating to friction materials. (August 10, 1977).

567/Del/78. Ferodo Limited. Improvements in or relating to friction materials. (August 10, 1977).

2nd August, 1978.

568/Del/78. John Derek Guest. Improvements in or relating to couplings for tubes.

569/Del/78. Chemetron Corporation. Method for preparing bleed resistant lithographic inks.

570/Del/78. Chemetron Corporation. Method for preparing bleed resistant lithographic inks.

3rd August, 1978.

571/Del/78. Ferodo Limited. Improvements in or relating to friction materials. (August 10, 1977).

572/Del/78. Balfour Beatty Limited. Improvements relating to artificial and natural structures. (August 12, 1977). [Addition to No. 1530/Cal/77].

573/Del/78. Miles Laboratories, Inc. Test means and method for detecting ketone bodies.

574/Del/78. Metallizing Equipment Co. Roto blast type pipe cleaning tool.

575/Del/78. Racold Appliances Pvt. Ltd. An arrangement consisting of a resilient plate or tray having at least a single handle removably held thereto. [Divisional date April 17, 1978].

576/Del/78. Racold Appliances Pvt. Ltd. A heater having a tubular heating element. [Divisional date April 17, 1978].

577/Del/78. Polar Auto & General Engineering Industries Pvt. Ltd. A seat for use in mechanically propelled vehicles.

578/Del/78. B. R. Thadhani. A signal lamp.

4th August, 1978.

579/Del/78. Hindustan Electro—Graphites Ltd. A process for the manufacture of coke.

580/Del/78. Lodge-Cottrell Limited. Improvements in or relating to gas treatment. (September 6, 1977).

581/Del/78. J. Guigan. Device for conditioning a sample of liquid for analysis.

APPLICATION FOR PATENTS FILED AT THE (BOMBAY BRANCH)

22nd July, 1978.

216/Bom/78. Indian Oil Corporation Ltd. Improvements in or relating to the process for the manufacture of cylinder oils.

217/Bom/78. Indian Oil Corporation Ltd. Improved industrial gear oils.

26th July, 1978.

218/Bom/78. K. N. Mistry. Improvements in or relating to gas measuring device.

27th July, 1978.

219/Bom/78. S. D. Mahurkar. Portable dialysis system and pump thereof.

220/Bom/78. V. M. Joshi. A method for automatic defrosting of refrigerators.

28th July, 1978.

221/Bom/78. P. G. Bhide. A process to convert petrol engines into diesel engines.

222/Bom/78. V. D. Sahakari. A novel scouring agent for man-made fibre, nylon, wool, silk, scrilic fibres blended in any proportion.

223/Bom/78. V. D. Sahakari. A novel scouring agent for cotton yarn, hanks or textile fabrics.

224/Bom/78. V. D. Sahakari. A novel process for desizing and scouring of cotton yarn, hanks or textile fabrics.

225/Bom/78. V. D. Sahakari. A novel process for desizing and scouring of natural and man-made fibre, nylon, wool, silk, acrylic fibres blended in any proportions and textile fabrics made therefrom.

226/Bom/78. BO Jufors. A system for the irrigation of plants.

29th July, 1978.

227/Bom/78. M. M. Dr. Sidheshwar Shastri Chitro. Technologically improved ayurvedic 'Varuni Yantra', 'Kacchapa Yantra', 'Mayur Yantra', and/or 'Mochika Yantra', and improved processes and techniques of distillation thereby, for distillation of 'Varuni class' of Ayurvedic medicinal alcoholic concentrates, with alcohol content of 40%, or thereabouts, as described in ancient ayurvedic scriptures.

APPLICATION FOR PATENTS FILED AT THE (MADRAS BRANCH)

31st July, 1978.

114/Mas/78. S. P. Ramasamy. A drier.

115/Mas/78. Tube Investments of India Limited. A method of economical manufacture of lightweight structural members and the simultaneous production of small machine component blanks therefrom.

1st August, 1978.

116/Mas/78. K. I. Puthenangadi. A self-acting erosion arrester.

2nd August, 1978.

117/Mas/78. G. P. Pandit. Kero-air stove.

118/Mas/78. S. Gopalakrishna Iyer. Modifications and arrangements in instant meat-vapourised oil carburettor and gas feed modification.

3rd August, 1978.

119/Mas/78. S. Gopalakrishna Iyer. New design wet grinder.

120/Mas/78. N. K. Rao. Improvements in or relating to method and machines for making chapatis, puris, papad and the like.

4th August, 1978.

121/Mas/78. S. Gopalakrishna Iyer. A new design spinning wheel.

8th August, 1978.

122/Mas/78. S. Gopalakrishna Iyer. Further details and modifications in new design wet grinder.

9th August, 1978.

123/Mas/78. C. A. Kandaswamy. A fuse carrier.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in the opposing the grant of patents of any of the applications concerned may at any time within four months of the date of this issue or on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months given notice to the Controller of Patents at the appropriate office as indicated in respect of each application on the prescribed form 15 of each opposition. The written statement of opposition should be filed alongwith the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification".

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8 Kiran Shankar Ray Road, Calcutta in due Course. The price of each specification is Rs. 2/- (postage extra if sent out of India) Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 32D & E & 40B. 145227.

Int. Cl.-B01j 11/00.

PROCESS FOR THE PREPARATION OF A CATALYST FOR USE IN THE POLYMERIZATION OF OLEFINS.

Applicant: HOECHST AKTIENGESELLSCHAFT, OF 6230 FRANKFURT/MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors: WOLFGANG STROBEL AND RAJNER FRANKE.

Application No. 2108/Cal/76 filed November 25, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A process for the preparation of a catalyst for use in the polymerization of olefins, which comprises:

(a) reacting a solid carrier, such as, silicon dioxide and/or aluminium oxide having a content of hydroxyl groups of from 0.5 to 50 mols/g, in the presence of an inert diluent such as herein defined, with a magnesium compound of the formula $RMgX$, wherein R is a hydrocarbon radical having from 1 to 20 carbon atoms and X is chlorine, bromine or iodine, in an amount of from 0.05 to 1 mol of magnesium compound per mol of hydroxyl groups of the carrier, and thereafter,

(b) reacting, the solid product obtained as a result of reaction (a), in the presence of an inert dispersing agent such as herein defined, with a halogen-containing titanium (IV) compound of the formula $TiX_n(OR')_4-n$ wherein n is an integer of from 1 to 4 and X is chlorine or bromine and R' is a hydrocarbon radical having from 1 to 12 carbon

atoms, in an amount of from 0.01 to 1 mol of titanium compound per mol of hydroxyl groups of the carrier to obtain the catalyst component, A, which is further treated, before and during the polymerization of the olefins, with a metallo-organic compound (component B) such as herein described, to obtain the desired catalyst.

CLASS 32C.

145228.

Int. Cl.-C12d 13/06.

METHOD FOR OBTAINING CONCENTRATED PROTEINS FROM RAPE SEEDS.

Applicant: AKADEMIA ROLNICZO-TECHNICZNA, OF OLSZTYN, POLAND, AKADEMIA ROLNICZA, OF UL. WOJSKA POLSKIEGO 28, POZNAN, POLAND.

Inventors: HALINA KOZIOWSKA, KAZIMIERZ BOGACZYSKI, RYSZARD ZADRNOWSKI, BOZENA CHODKOWSKA LOSSOW AND KAZIMIERZ SZEBIOTKO.

Application No. 2144/Cal/76 filed December 1, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

• 7 Claims.

A method for obtaining protein concentrate from rape seeds, by removal of noxious and toxic matters of the thioglycoside type in water extraction process and deoiling by squeezing and/or solvent extraction if disintegrated seeds, characterized in that the whole rape seeds, are purified and sorted into at least two fractions, each of them containing the seeds of uniform size, and thereafter each of said fractions is separately subjected to water extraction and simultaneous inactivation of mirosinase enzyme with water maintained at a pH value ranging between 8.0 to 9.5, most preferably 9.0 for 30-60 minutes (most preferably 30 minutes) at a temperature ranging from 90°C to 98°C (most preferably 90°C), whereafter from the wet seeds of said fractions the seeds are hulled separately and the mixture of hull and seed-leaves is washed with hot water, dripped off, dried, and freed of hull and the unhulled seed, if any, and then the cleaned seed-leaves are deoiled and disintegrated by conventional methods, to obtain the desired protein concentrate.

CLASS 70C & 130F.

145229.

Int. Cl.-C23b 3/00.

NICKEL ELECTROWINNING PROCESS.

Applicant: INCO LIMITED (FORMERLY KNOWN AS THE INTERNATIONAL NICKEL COMPANY OF CANADA LIMITED), OF TORONTO-DOMINION CENTRE, TORONTO, ONTARIO, CANADA.

Inventors: SHINICHIRO ABE, AUBREY STEWART ENDERSON AND VICTOR ALEXANDER ETTEL.

Application No. 65/Cal/77 filed January 17, 1977.

Convention date February 9, 1976/(245281/76) CANADA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims. No drawings.

A process for obtaining nickel as a well-levelled, substantially sulphur-free deposit on a reusable cathode by electrodeposition from an aqueous, substantially chloride-free electrolyte containing:

(a) from 40 to 130 g/l of nickel as a water-soluble sulphate, (b) from 0.5 to 25 g/l of magnesium sulphate, (c) from 75 to 150 g/l of sodium sulphate, (d) 0 to 50 g/l of boric acid and (e) from 30 to 80 mg/l of a levelling agent which is a sulphur-free hydrophilic polymer of intermediate molecular weight as hereinbefore defined, with an anti-misting agent also being present, the said deposit having a thickness of at least 0.17 cm and preferably at least 0.2 cm, the electrode

position taking place at a temperature in the range of from 30° to 90°C and for a duration of at least 40 hours, with a cathode current density of at least 200 A/m².

CLASS 47A & B. 145230.

Int. Cl.-C10j 5/00, E21c 43/00.

PROCESS AND REACTOR FOR THE PARTIAL COMBUSTION OF PULVERIZED COAL.

Applicant: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.G., OF CAREL VAN BYLANDTLAAN 30, THE HAGUE, THE NETHERLANDS.

Inventor: GERNOT STAUDINGER.

Application No. 276/Del/77 filed September 29, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

17 Claims.

Process for the partial combustion of pulverized coal, in which the latter is introduced via a burner into a gasification reactor together with oxygen, in which the pulverized coal is supplied to the burner dispersed in a carrier gas and in which the oxygen is injected into the stream of pulverized coal in the burner.

CLASS 32F,c. 145231.

Int. Cl.-C07c 127/10.

PROCESS FOR SEPARATING AND RECOVERING UNREACTED AMMONIA AND AMMONIUM CARBAMATE IN UREA SYNTHESIS.

Applicant: MITSUI TOATSU CHEMICALS, INCORPORATED, OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, 100, JAPAN.

Inventors: HIROSHI ONO AND SHIGERU INOUE.

Application No. 1652/Cal/76 filed September 8, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims.

A process for separating and recovering unreacted ammonium carbamate and excess ammonia contained in a urea synthesis effluent which comprises reacting in a urea synthesis reactor carbon dioxide with a stoichiometric excess of ammonia under a urea synthesis pressure of 150—260 Kg/cm² gauge and at a urea synthesis temperature of 170—210°C to form said urea synthesis effluent, the mol ratio of said ammonia to said carbon dioxide being in the range of from 5:1 to 12:1, pressurizing said urea synthesis effluent to a pressure higher than said urea synthesis pressure, heating to a temperature higher than said urea synthesis temperature said pressurized urea synthesis effluent in a separation zone to separate therefrom said unreacted ammonium carbamate and said excess ammonia in the form of a gaseous mixture of ammonia and carbon dioxide and water vapor, and recycling said gaseous mixture having the pressure higher than said urea synthesis pressure to said urea synthesis reactor in the form of said gaseous mixture as it is or in the form of mixture of gaseous ammonia, carbon dioxide and water vapor and condensate thereof formed by the partial condensation of said gaseous mixture.

CLASS 70A & B & C. 145232.

Int. Cl.-C01d 1/06, H01g 9/00.

A DIAPHRAGM FOR ELECTROLYTIC CELLS.

Applicant: RHONE-POULENC INDUSTRIES, OF 22 AVENUE MONTAIGNE, 75 PARIS 8, FRANCE.

Inventors: PIERRE BOUY, JEAN BACHOT AND JEAN-LUC BOURGEOIS.

Application No. 2076/Cal/76 filed November 19, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims. No drawings.

A selective diaphragm for use in an electrolytic cell having separate anode and cathode compartments and suitable for arrangement between the said compartments, comprising a cation-exchange membrane carrying a microporous layer that is joined to it and covers at least one side of the membrane.

CLASS 32F,b & 55D₂. 145233.

Int. Cl.-C07d 55/06.

A PROCESS FOR PREPARING 1-(N, N-DIMETHYL-CARBAMYL)-3-TERT. BUTYL-5-METHYLTHIO-1, 2, 4-TRIAZOLE.

Applicant: GULF OIL CORPORATION, AT PITTSBURGH, PENNSYLVANIA, UNITED STATES OF AMERICA.

Inventor: JOEL LEE KIRKPATRICK.

Application No. 516/Cal/77 filed April 5, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A process for preparing 1-(N, N-dimethylcarbamyl)-3-tert. butyl-5-methylthio-1, 2, 4-triazole comprising reacting 3-tert. butyl-5-methylthio-4H-1, 2, 4-triazole with dimethyl carbamyl chloride.

CLASS 11-C. 145234.

Int. Cl.-A01k 41/00.

AN APPARATUS FOR PREINCUBATING EGGS.

Applicant & Inventor: HENRICUS GERHARDUS HERMANUS MARIA PAS, OF 'S-HEERENBERGSEWEG 13, ZEDDAM, THE NETHERLANDS.

Application No. 231/Cal/75 filed February 7, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

An incubator consisting of at least one incubating chamber, comprising a conveyor moving in a circular path with a continuous speed which is adapted to introduce a plurality of stacks into the incubating chamber, means for guiding the stacks through the incubating chamber and means for discharging the stacks to the outside after the required period of residence in the incubating chamber.

CLASS 127-A. 145235

Int. Cl.-F16d 11/00.

A NEW OR IMPROVED TORQUE LIMITING CLUTCH

Applicant: GIB PRECISION LIMITED, OF BARTON LANE, CIRENCESTER, GLOUCESTER GL7 2ED ENGLAND.

Inventors: OLAF JOHN BARCLAY ORWIN.

Application No. 1154/Cal/75 filed June 12, 1975.

Convention date June 13, 1974(26229/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims.

A clutch of the type described including a spacer element received in an opening in the third member and positioned between a first track axially located relative to one of the

members and a second track axially located relative to another one of the members, a spacer element receiving means provided on at least one of the tracks and of such dimension as to maintain the spacer element out of pressure contact with the tracks during torque transmittal so as to ensure the torque transmitting element is maintained in pressure contact with the driven and second members, and a torque transmitting element receiving means provided on one of said driven and second members, whereby on disengagement of the torque transmitting element from the torque transmitting abutment in the driven member the third member is caused to rotate relative to the driven member and hence cause circumferential movement of the spacer element out of the space element receiving means and subsequently to cause the torque transmitting element to be engaged and maintained within the torque transmitting element receiving means with the driven and second members spaced apart by the spacer elements, the torque transmitting element receiving means being of such dimensions that the torque transmitting element is maintained out of pressure engagement with the driven and second members and relative rotation between the driving and driven members is permitted when the torque transmitting element is engaged in the torque transmitting element receiving means, and wherein during overload the torque transmitting element is not continuously biased out of the torque transmitting element receiving means.

CLASS 97-F.

145236.

Int. Cl.-F27, 7/00.

IMPROVEMENTS IN OR RELATING TO ELECTRICAL SMELTING FURNACES.

Applicant : ELKEM-SPIGERVERKET A/S, OF ELKEM-HUSET, MIDDELTHUNSGATE 27 OSLO 3, NORWAY.

Inventor : HARALD KROGSRUD.

Application No. 1721/Cal/75 filed September 9, 1975.

Addition to No. 2332/Cal/74.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

An electric smelting furnace which comprises a furnace pot having a substantially vertical axis, at least one hollow open-bottomed member mounted within the pot substantially coaxially therewith and means for rotating or oscillating the hollow member relative to the pot about the common vertical axis, the hollow member being equipped with pusher devices so constructed and arranged that as the hollow member is rotated they contribute to the movement of the charge in a direction towards the centre of the pot, and in which there is an annular space defined between the lining of the furnace pot and the hollow member and closed at the top by an annular cover plate which is sealed by a sand seal or equivalent sealing arrangement, the annular space forming a gas collection space and there being one or more gas collection pipes leading into the said space through which the collected gases can be sucked off.

CLASS 172D.

145237.

Int. Cl.-E04c 2/04.

IMPROVEMENTS IN AND RELATING TO THE PRODUCTION OF COHERENT STRANDS FROM AQUEOUS ASBESTOS DISPERSIONS AND AN APPARATUS THEREFOR.

Applicant : TBA INDUSTRIAL PRODUCTS LIMITED, OF 77 FOUNTAIN STREET, MANCHESTER M2 2EA, ENGLAND.

Inventors : ANTHONY NORMAN MAGNALL, PHILIP HARVEY TAYLOR & FRED ROBERTS.

Application No. 364/Cal/76 filed February 27, 1976.

Convention date March 8, 1975(9746/75) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A process for producing a coherent strand from a dispersion of asbestos in an aqueous soap solution containing up to 100 per cent molar excess of fatty acid such as herein described, which comprises forming a stream of said dispersion and chilling by a method such as herein described said newly formed stream sufficiently to gel the dispersion.

CLASS 40C.

145238.

Int. Cl.-B01f 3/12.

A DISPERSION ASBESTOS FIBRE IN AN AQUEOUS MEDIUM AND METHOD OF PRODUCING THE SAME.

Applicant : TBA INDUSTRIAL PRODUCTS LIMITED, OF 77 FOUNTAIN STREET, MANCHESTER M2 2EA, ENGLAND.

Inventor : PHILIP HARVEY TAYLOR.

Application No. 365/Cal/76 filed February 27, 1976.

Convention date March 8, 1975/(9751/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims. No drawings.

A dispersion of asbestos fibre in an aqueous medium essentially comprised of water, soap such as herein defined and up to 100 percent molar excess of free fatty acid, said excess being calculated on the amount of fatty acid combined in the soap.

CLASS 21B.

145239.

Int. Cl.-A43b 3/00, 5/00, 13/00.

FOOT-WEAR.

Applicant & Inventor : MARTHIENES JOHANNES DELPORT, OF 21, CHURCH STREET, STRAND, REPUBLIC OF SOUTH AFRICA.

Application No. 545/Cal/76 filed March 30, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

26 Claims.

A shoe including a metatarsal arch support comprising a heel portion; a medial portion extending from the heel portion; and a metatarsal portion extending from the medial portion and terminating in a round metatarsal edge; which support increases in width from the medial portion to the metatarsal edge; the medial portion having a curved transverse cross-sectional shape; and the metatarsal portion having a crescent transverse cross-sectional shape which flattens by way of a wedge-shape into the round metatarsal edge; the metatarsal edge being adapted to be substantially below the joints of the five metatarsal bones to the proximal phalanges.

CLASS 25A.

145240.

Int. Cl.-E04c 1/00.

METHOD OF PRODUCING SAND-LINE BRICKS WITH A LOW BULK DENSITY.

Applicant : SICOWASILIKAT CONSULTING WANKUM GMBH & CO. KG, OF WANKUMER HEIDE, D-4175 WACHTENDONK 2, FEDERAL REPUBLIC OF GERMANY.

Inventors : PROFESSOR DR.-ING. KARLHANS WESCHE, DIPL.-ING. PETER SCHUBERT AND DIPL.-ING. HORST GLITZA.

Application No. 508/Cal/76 filed March 23, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims. No drawings.

A method of producing sand-lime bricks of a density of the solid brick being less than 1.800 kg/m³ and a green strength of at least 1 kp/cm², wherein a raw mixture of sand, lime and water with the proportions by weight being 1 : 0.05 to 0.1 : 0.1 to 0.2 is produced and then compacted in moulds to form bricks which are subsequently cured, characterised in that at least 1% by weight of cement is added to the mixture prior to compaction thereof, and in that the mixture is compacted at a pressure of less than 150 kp/cm².

CLASS 63F.

145241.

Int. Cl.-H02k 23/00.

DIRECT CURRENT MACHINE.

Applicant & Inventor : SERGEI PETROVICH KALINICHENKO, OF KHARKOV, BULVAR IVANA KARAKACHA, 2, KV.4, USSR; (2) JURY GRIGORIEVICH DUDIN, OF KHARKOV, ULITSA SEVERNAYA, 5, KV. 45, USSR, (3) LEONID EVGENIEVICH YAZLOVETSKY, OF KHARKOV, ULITSA MIRA, 114, KV. 56, USSR, (4) IZRAIL BORISOVICH ALTSHULER, OF KHARKOV, ULITSA II PYATILETKI, 3, KV. 36 USSR, (5) IGOR NIKOLAEVICH PEREGUDOV, OF KHARKOV, ULITSA, KAREISKAYA, 12, KV. 30, USSR AND NIKOLAI FEDOROVICH OZERNOI, OF KHARKOV, MOSKOVSKY PROSPEKT, 102/112, KV. 101, USSR.

Application No. 527/Cal/76 filed March 26, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A direct current machine having additional poles provided with an excitation winding of said additional poles and a step-up-winding for compensation of the magnetic flux produced in the commutation zone by eddy currents of the magnetic circuit of the additional poles during dynamic changes of the load current characterized by that the step-up-winding is arranged in parallel with the excitation winding of said additional poles, the resistance of the said step-up-winding is at least twice that of the excitation winding of the additional poles and further characterized in that the step-up-winding is positioned closer to the commutation zone than the excitation winding of the additional poles and has equal or greater number of loops and lesser inductance than this excitation winding.

CLASS 167C.

145242.

Int. Cl.-B07b 9/00, 11/00.

FANNING MILL.

Applicant : SATAKE ENGINEERING CO., LTD., OF 19-10, UENO-1 CHOME, TAITO-KU, TOKYO, JAPAN.

Inventor : AKIRA KONO.

Application No. 551/Cal/76 filed March 30, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim.

A fanning mill comprising a housing, a grain supply port on said housing, a generally closed air circulating duct having substantially the same width along the whole length of the duct and arranged in said housing at a position beneath said grain supply port characterized by the provision of a cross-flow fan installed crosswise in one portion of said air circulating duct and having substantially the same width as that of the air circulating duct so that an air blast having the whole width of said duct can be circulated through said duct, a winnowing zone being arranged in another portion of said duct extending along said duct with the whole width of the duct.

CLASS 65A.

145243.

Int. Cl.-H02m 7/00.

IMPROVEMENTS IN OR RELATING TO D.C. TO A.C. SUPPLY ARRANGEMENTS.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, GERMANY (WEST).

Inventor : HERWIG KLAUTSCHEK.

Application No. 593/Cal/76 filed April 5, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A d.c. to a.c. supply arrangement comprising: two d.c. inputs for connection across a d.c. source; an inverter having two inputs, each of which being connected to a respective one of said d.c. inputs via an electronic switching element; the inverter further having at least one smoothing choke being connected between one of said inputs and the respective one of said switching element; an a.c. output side for connection to an a.c. inductive load, a plurality of controllable rectifier element branches and capacitive quenching means for the controllable rectifier elements of said branches; and feed back means comprising (a) a rectifier connected to the a.c. output side of the inverter; (b) at least one capacitor arranged to be supplied by the rectifier with charging current which overflows from said capacitive quenching means and (c) connections from the two output sides of the rectifier to the respective inputs of the arrangement, both of which connections including voltage reducing elements.

CLASS 48A.

145244.

Int. Cl.-H01b 15/00.

A METHOD FOR INSTALLING A SHIELD CONNECTOR IN A CABLE HAVING ELECTRICAL CONDUCTORS.

Applicant : PERFORMED LINE PRODUCTS COMPANY, 660 BETA DRIVE, CLEVELAND, OHIO, 44143, UNITED STATES OF AMERICA.

Inventors : DONALD J. SMITH AND PAUL CLAYTON GETZ.

Application No. 987/Cal/76 filed June 8, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim.

A method for installing a shield connector in a cable having electrical conductors, a conductive shield surrounding the electrical conductors, and an outer cover surrounding the conductive shield, including the steps of inserting a thin plastic piece between the shield and the electrical conductors of a cable; cutting the outer cover and shield of the cable on the inserted thin plastic piece; and inserting a shield connector between the cut shield and the inserted thin plastic piece.

CLASS 130-I.

145245.

Int. Cl.-C22b 15/08.

ELECTROLYTIC PRODUCTION OF COPPER FROM ORES AND CONCENTRATES.

Applicant : DEXTEC METALLURGICAL PTY. LTD., OF 119 YORK STREET, SYDNEY, NEW SOUTH WALES, 2000, AUSTRALIA.

Inventor : PETER KENNETH EVERETT.

Application No. 1251/Cal/76 filed July 12, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A process for extracting copper from a copper and iron bearing ore or concentrate and concomitantly plating out the extracted copper at the cathode of an electrochemical diaphragm cell which comprises forming a slurry of the ore or concentrate with an electrolyte in the anode compartment of the electrochemical diaphragm cell, intimately mixing finely dispersed oxygen bearing gas with the slurry and maintaining the slurry and the mixture at substantially atmospheric pressure throughout the process and at a temperature of from 50°C to the boiling point of the electrolyte, said electrolyte containing chloride ions in a concentration between that sufficient to maintain in solution any cuprous ions present, and saturation, and passing current between the anode and cathode at a rate such that the hydrogen ions liberated at the anode maintain a pH of between 1.5 and less than 7.0 in the electrolyte throughout the process, whereby the iron solubilized in the process is substantially simultaneously precipitated as ferric oxide and sulphide sulphur oxidised under the conditions is substantially converted to elemental form and the copper is plated at the cathode.

CLASS 129G.

145246.

Int. Cl.-B21j 9/00.

IMPROVED SWAGING DIE AND PRESS.

Applicant : CCL SYSTEMS LIMITED, OF CABCO HOUSE, 296-304 EWELL ROAD, SURBITON, SURREY, ENGLAND.

Inventors : HUGH JEREMY WILLIS EDWARDS AND CEDRIC GWILLIAM BIRKS.

Application No. 1393/Cal/76 filed August 4, 1976.

Convention date August 4, 1975/(32600 & 23601/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A press for use in swaging a metal sleeve on to a concrete-reinforcing bar or wire rope, comprising a piston reciprocable in a cylinder, two arms extending from one end of the cylinder on opposite sides of the piston, the distance between the outer surfaces of the arms being less than the outer diameter of the cylinder, a first die part secured to the exposed end of the piston, a co-operable second die part secured to the exposed end of the piston, a co-operable second die part secured to a bridging member, the bridging member being dimensioned and arranged to bridge the arms and being detachably engageable upon the arms.

CLASS 107F.

145247.

Int. Cl.-F02b 53/12.

ELECTRONIC IGNITION DEVICE FOR INTERNAL COMBUSTION ENGINES.

Applicant & Inventor : CHARLES CARON, OF 64, AVENUE DU LIGNON, GENEVA, SWITZERLAND.

Application No. 1308/Cal/76 filed July 21, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

An electronic ignition device for an internal combustion engine, comprising a tripping device, an ignition coil, a capacitor connected to a charging circuit, an electronic switch controlling discharging of said capacitor into a primary winding of the ignition coil, said electronic switch being controlled from the tripping device by a control circuit having means for successively opening and closing said switch several times in response to each control of the tripping-device, and means for locking the control circuit when the device is switched on while the tripping device is in a given position, said locking means becoming inoperative as soon as the tripping device comes into operation.

CLASS 80-I.

145248.

Int. Cl.-B01d 39/00.

A REINFORCED ELASTOMERIC SCREEN ELEMENT FOR A GRADING OR DEWATERING SCREEN AND A METHOD FOR MAKING THE SAME.

Applicant : BIRTLEY ENGINEERING LIMITED, OF BARKER LANE, CHESTERFIELD, DERBYSHIRE, ENGLAND AND TERENCE CHARLES ADAMS, OF MATTFORD MOUNT 15 DAWLISH ROAD, ALPHINGTON, EXETER, EX2 8XW, ENGLAND.

Inventor : TERENCE CHARLES ADAMS.

Application No. 1995/Cal/76 filed November 3, 1976.

Convention date November 4, 1975/(45798/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims.

A method of making a reinforced elastomeric screen element for a grading or dewatering screen comprising forming a sheet of a wear resistant elastomeric material in a liquid state in a tray-like mould, lowering into contact with the liquid elastomeric material in the mould a rigid open-work reinforcement and an array of studs for forming the apertures of the screen element, the studs extending through the openings of the reinforcement and an array of studs for forming the apertures of the screen element, the studs extending through the openings of the reinforcement and through the liquid elastomeric material to the bottom of the mould, allowing the elastomeric material to set, and withdrawing the studs from the set sheet of elastomeric material in the mould leaving the reinforcement permanently fixed to the elastomeric material.

CLASS 40H.

145249.

Int. Cl.-B01d 47/00, 53/00, C10k 1/00.

A GAS SCRUBBING PROCESS FOR REDUCING THE CONCENTRATION OF SULFUR IN PHYSICAL SCRUBBING AGENTS.

Applicant : LINDE AKTIENGESELLSCHAFT, OF D-62 WIESBADEN, ABRAHAM-LINCOLN-STR. 21, WEST GERMANY.

Inventors : DR. HEINZ KARWAT AND DR. WOLFGANG JELEND.

Application No. 169Cal/77 filed February 5, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims

A gas scrubbing process for reducing the concentration of sulfur in physical scrubbing agents as hereinbefore defined with a physical scrubbing solution such as hereinbefore defined wherein the scrubbing solution contains dissolved H₂S which forms elemental sulfur in the scrubbing solution, by reacting with O₂ and/or SO₂, both of them being introduced either by the gas-to-be scrubbed or by a second gas (used in the process) and said scrubbing solution is regenerated; the improvement which comprises adding a sufficient amount of soluble cyanides to the scrubbing solution to convert the elemental sulfur to thiocyanate, and removing as herein described the thiocyanate at least partially from the scrubbing solution.

CLASS 237-I & 136E & 151A & 184.

145250.

Int. Cl.-E04h 7/22.

IMPROVEMENTS IN OR RELATING TO PRECAST FERRO CEMENT CYLINDRICAL UNITS FOR USE IN STRUCTURES LIKE GRAIN STORAGE BINS, WATER TANKS, BIOGAS HOLDERS AND PIPES.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

Inventors: GUNTURI VENKATA SURYA KUMAR, PREM CHAND SHARMA AND SESHADRI GOPALAKRISHNAN.

Application No. 75/Del/76 filed December 29, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

17 Claims

A process for producing precast ferro cement cylindrical units for use in structures like grain storage bins, water tanks, biogas holders and pipes by winding wiremesh, layer on a cylindrical mould and applying cement mortar, layer after layer, simultaneously on the wiremesh as and when it is wound on the mould, characterised in that the wiremesh roll is mounted on a rotating spindle which enables the wiremesh to be fed continuously on the cylindrical mould, which is also mounted on a second rotating spindle parallel to the first spindle, and cement mortar is applied simultaneously on the wiremesh wound on the mould in a continuous process, whereby the conventional tying of the individual layers of wiremesh with one another during the application of cement mortar is eliminated.

CLASS 39C. 145251.

Int. Cl.-C01c 1/16.

PROCESS FOR PRODUCING AMMONIUM CHLORIDE.

Applicant: ASAHI GLASS COMPANY LTD., OF NO. 1-2, MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors: KEIICHI NAKAYA AND AKIRA HARA.

Application No. 924/Cal/76 filed May 27, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta,

4 Claims. No drawings.

In ammonia soda process, a method of obtaining NH₄Cl from NaHCO₃ free mother liquor, wherein NaHCO₃ has been separated in a known manner by feeding CO₂ to liquor obtained from ammonium soda process comprising the steps of:

adding NH₃ and NaCl to the said NaHCO₃ free mother liquor and then cooling the reaction mixture characterized in that the cooling is done by contacting in a manner such as herein before described a liquefied coolant (as herein before defined) directly with the reaction mixture and thereby precipitating NH₄Cl.

CLASS 32F. 145252.

Int. Cl.-C07c 11/00, 43/00.

A CHEMICAL PROCESS FOR REMOVING ACETYLENIC COMPOUNDS CONTAINED IN A HYDROCARBON MIXED STREAM.

Applicant: SNAMPROGETTI S.P.A., OF CORSO VENEZIA 16, MILAN, ITALY.

Inventors: CARLO RESCALLI, ANTONIO PACIFICO AND ROCCO FARACI.

Application No. 1195/Cal/76 filed July 6, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims. No drawings.

A chemical process for removing acetylenic compounds having from 2 to 4 carbon atoms and contained in a hydrocarbon mixed stream or in a gaseous stream containing organic and inorganic compounds as herein described, characterized in that an alcohol or a glycol is added to said acetylenic compounds contained in said stream, said addition reacting taking place within an acidic ion-exchange resin the

acidic groups of which have been totally exchanged with both mercuric ions of alkali metals or alkaline earth metals.

CLASS 98C & D & E. 145253.

Int. Cl.-F24h 1/00.

LIQUID HEATING APPARATUS.

Applicant & Inventor: NOBORU MARUYAMA, OF NO. 26-14, SHIRASAGI 2-CHOME, NAKANO-KU, TOKYO, JAPAN.

Application No. 1397/Cal/76 filed August 4, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta,

5 Claims

A liquid heating apparatus comprising a vertical hexahedral outer body portion, an inner body portion which has a shape practically the same as that of said outer body portion and is disposed within the outer body portion by spacing therefrom so as to form an outside water jacket, two vertically oriented plate members disposed within said inner body portion by leaving a space between the fellow plate members and a space between the plate member and the wall of inner body portion so as to define an inside water jacket by the former space as well as define a rising heated gas chamber along one side and a falling heated gas space along the other side of the latter space, said rising heated gas chamber communicating with said falling heated gas space at their upper part and the ratio $\frac{W_f}{W_d}$ of the width W_d of said falling heated gas space to the width W_u of said rising heated gas chamber being set at 0.8 or less than 0.8, a flue provided at the upper part of the rising heated gas chamber and communicating with the falling heated gas space, and a flue gas exit provided at the lower part of the falling heated gas space.

CLASS 32F. 145254.

Int. Cl.-C07d 21/00.

METHOD FOR PREPARING MONO-, DI-, TRI-, AND TETRA-METALLIC CHELATE DERIVATIVES OF ANTHRACYCLINE.

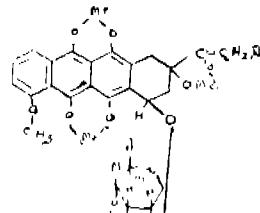
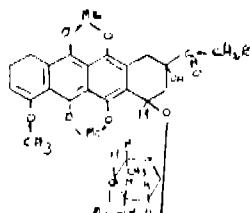
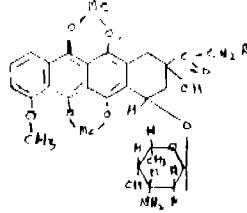
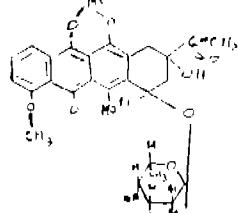
Applicant & Inventor: MARIO GOSALVEZ GOSALVEZ, OF AVENIDA DE ALFONSO XIII, 182—MADRID 16, SPAIN.

Application No. 1529/Cal/76 filed August 21, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta,

9 Claims.

A method for the preparation of a metal chelate derivative of daunorubicin or doxorubicin selected from the group consisting of the monometallic, dimetallic, trimetallic and tetra-metallic chelated derivatives of the formulae A, B, C and D



wherein R is H or OH and Me is a metal atom selected from the group consisting of Fe³⁺, Cu²⁺, Ni²⁺, Fe²⁺

Zn²⁺, Cd²⁺, Pb²⁺, Al³⁺, and Hg²⁺, said method comprising the step of reacting an anthracycline compound selected from the group consisting of daunorubicin and doxorubicin with a reactive compound of said metal selected from the group consisting of a base, a salt and an acid thereof in aqueous solution at a temperature within the range of from about 15°C to about 50°C, the molar ratio of the metallic reactant to the anthracycline reactant being sufficient to provide the stoichiometric ratio of metal atoms to anthracycline molecules for the particular one of said chelated derivatives being prepared.

CLASS 84A.

145255.

Int. Cl.-C101 3/00.

PROCESS FOR PRODUCTION OF SYNTHESIS GAS.

Applicant: TEXACO DEVELOPMENT CORPORATION, OF 135 EAST 42ND STREET, NEW YORK, NEW YORK, 10017, U.S.A.

Inventors: WILLIAM BERNARD CROUCH, WILLIAM LEON SLATER AND WARREN GLEASON SCHLINGER.

Application No. 1609/Cal/76 filed September 1, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A process for the production of synthesis gas of reduced particles content, which comprises subjecting a carbonaceous fuel as herein described the partial oxidation using an oxidising agent to produce a synthesis gas stream containing entrained solid particles comprising soot and ash, passing said gas stream through a confined zone, thereby accelerating the rate of flow of said gas stream and increasing the velocity of said solid particles, and obtaining stream of gas of reduced particle content from said particles of increased velocity as product.

CLASS 63-I.

145256.

Int. Cl.-H02k 49/00.

ELECTROMAGNETIC CLUTCH.

Applicant: EXPERIMENTALNY NAUCHNO-ISSLEDOVATELSKY INSTITUT METALLOREZHUSCHIKH STANKOV, OF 5 DONSKOI PROEZD, 21B, MOSCOW, USSR.

Inventors: OLEG NIKOLSEVICH TATUR, VIKTOR PETROVICH ZHED, GRIGORY MAXOVICH FLIDLIDER AND GENNADY SERGEEVICH DZHAVAKHOV.

Application No. 1817/Cal/76 filed October 5, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

An electromagnetic clutch, wherein on one end of a bush a magnetic circuit with a coil is placed, whereas an armature is placed at the other end; a pack of magnetically conductive disks is positioned between said armature and said magnetic circuit, some of said disks are elastic and each magnetically conductive disk comprises concentrically arranged linked outer and inner rings; said links of the elastic magnetically conductive disks are twisted in a free state with respect to their radial axis and bent with respect to the normal to their radial axis, which ensures a complex torsional-bending strain during relative turn of the bases of a link about their radial axis and different shifts on the bases with respect to the initial plane of the magnetically conductive disk.

CLASS 69E.

145257.

Int. Cl.-H01h 3/00.

CAM SWITCH

Applicant: STARKSTROM SCHALTGERATEFABRIKEN SPINDLER—DEISSLER GMBH & CO. KG., OF D-5277 MARIENHEIDERODT, WEST GERMANY.

Inventor: DR. WOLF EICHNER.

Application No. 2174/Cal/76 filed December 8, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims.

Cam switch for performing electrical control operations with a housing, electric contacts accommodated therein, a ratchet device for the switching positions and an actuating device, characterised in that the electric contacts are located in one or more switch zones arranged axially one behind the other, that each switch zone has at least one switching chamber that centrally in each switching chamber a substantially cylindrical massive control cylinder is rotatable about the cylinder axis, that the control cylinder exhibits on its circumference in conformity with the control programme recesses which co-operate with actuating elements for the moving parts of the contacts, that the ratchet device is attached to the end face of a switching chamber, and that an axle connects together the actuating device the moving part of the ratchet device and the control cylinder.

CLASS 129G.

145258.

Int. Cl.-C21d 7/14.

METHOD FOR SECURING METALLIC STRIP PRODUCED FROM METAL POWDER.

Applicant: BRITISH STEEL CORPORATION, OF 33 GROSVENOR PLACE, LONDON, S W 1, ENGLAND.

Inventor: JOHN BELLIS.

Application No. 131/Cal/77 filed January 29, 1977.

Convention date January 30, 1976/(03766/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

A method for securing metallic strip produced from metal powder to leader means by which as strip end may be supported for guidance along a selected path, the method consisting of interposing between overlapping regions of the leader means and the strip end an aqueous compound having a water content such as hereinbefore defined which can be absorbed by the strip to an extent sufficient to enable the compound to provide adequate adhesion for support and/or guidance.

CLASS 55D.

145259.

Int. Cl.-A01n 5/00.

A COMPOSITION FOR INHIBITING TOBACCO AXILARY BUDS.

Applicant: KAO SOAP CO. LTD., OF NO. 1-1, KAYABA-CHO, NIHONBASHI, CHUO-KU, TOKYO, JAPAN.

Inventors: HIROKAZU NAKAYAMA, TOSHINO UKENA, KAZUYA OTSUJI, JUNICHI KAWANO, TSUNE-YUKI TAKENO, FUMIKAZU KAKIUCHI AND JIRO TAKEMOTO.

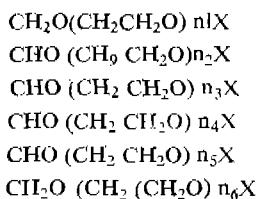
Application No. 173/Cal/77 filed February 7, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims. No drawings.

A composition for inhibiting tobacco axillary buds comprising 6-hydroxy-3-(2H)-pyridazinone and a salt thereof, and a surface active agent of polyoxethylene sorbitol fatty acid

esters type, as an adjuvants, represented by the following formula;



wherein $n_1 + n_2 + n_3 + n_4 + n_5 + n_6$ is 10 to 150, and at least one of X's is a straight- or branched-chain saturated or unsaturated acyl group having 8 to 22 carbon atoms and the residual X's are hydrogen atoms.

CLASS 39C.

145260.

Int. Cl.-C01c 1/04.

APPARATUS AND PROCESS FOR THE SYNTHESIS OF AMMONIA.

Applicant: HALDOR TORSOE A/S, OF 55, NYMOLLEVÆ, DK-2800 LNYGHY, DENMARK.

Inventors: HALDOR FREDERIK AXEL TORSOE AND IRIK ANDREAS GAM.

Application No. 350/Cal/77 filed March 9, 1977.

Convention date March 10, 1976/(09452/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

Process for the synthesis of ammonia at elevated pressure and temperature in a converter, which comprises passing a process stream of synthesis gas in succession radially through a first catalyst bed, through an intermediate heat exchanger for cooling the synthesis gas stream by indirect heat exchange and radially through a second catalyst bed, and using a feed stream of synthesis gas for cooling the converter shell and the process stream, characterized in that the process stream is obtained by combining, before being introduced in the first catalyst bed, at least two separate feed streams of synthesis gas, one of which acts as exchange gas in the intermediate heat exchanger, a second acting as by pass stream for adjustment of temperature of the process stream.

CLASS 139A.

145261.

Int. Cl.-C09c 1/44, C09c 1/48, C09c 1/50.

PRODUCTION OF CARBON BLACKS.

Applicant: CABOT CORPORATION, OF 125 HIGH STREET, BOSTON, MASSACHUSETTS, UNITED STATES OF AMERICA.

Inventors: JOHN HENRY HORN, WILLIAM RAY MOREHEAD, CLYDE DUANE SCHAUB, RONALD CALVIN HURST AND DENNIS JACK POTTER.

Application No. 762/Cal/77 filed May 29, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims. No drawings.

A modular process for producing furnace carbon blacks having lowered structure characteristics as represented by lowered DBP values such as hereinbefore defined of the blacks and increased extrusion shrinkage values of rubber formulations containing said blacks which comprises reacting

a fuel and an oxidant such as hereinbefore defined in a first stage so as to provide a stream of combustion gases having a combustion ranging from 1.25 to 0.33 equivalence ratio and possessing sufficient energy to convert a carbon black-yielding liquid hydrocarbon feedstock to carbon black; propelling the combustion gas stream in a downstream direction into a second stage where the liquid hydrocarbon make is injected in the form of a plurality of coherent jets into the gaseous stream substantially transversely from the periphery of the combustion gas stream so as to achieve the degree of penetration required for shearing and mixing; introducing the resultant gaseous reaction mixture in a downstream direction into a third zone, the reaction zone, wherein oxidant in an amount of from 5 to 45% of the total amount of oxidant required for production of the desired carbon black is injected together with an amount of hydro-carbon sufficient to achieve an equivalence ratio from 1.25 to 0; terminating the reaction by quenching and recovering the carbon black, the overall combustion of the process ranging from at least 6.67 to 2.50 equivalence ratio.

CLASS 32F,b & 55E.

Int. Cl.-C07d 99/00; C07g 11/00.

A METHOD FOR PREPARING DEPSIPEPTIDE ANTI-BIOTICS, NEOVIRIDOGRISEINS.

Applicant: SANRAKU OCEAN CO., LTD., OF 7 TAKARA-CHO 1-CHO, CHUO-KU, TOKYO, JAPAN. (2) PANLABS, INC., OF THORNWOOD LN, FAYETTEVILLE, NEW YORK, UNITED STATES OF AMERICA.

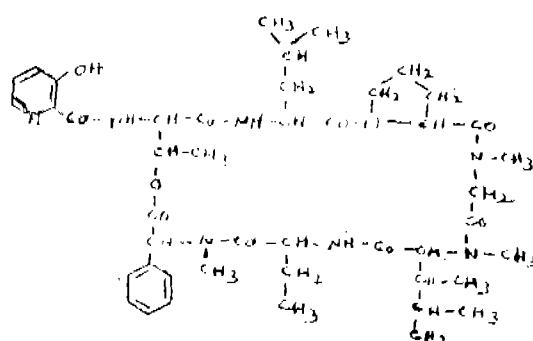
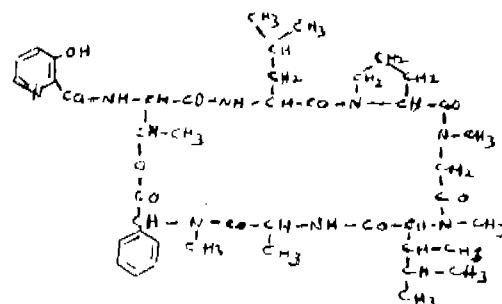
Inventors: YASUSHI OKUMURA, (2) KAZUHIKO OKAMURA, (3) YASUO FUKAGAWA, (4) TOMOYUKI ISHIKURA, (5) KAGEAKI KOUNO & JOSEPH LEIN.

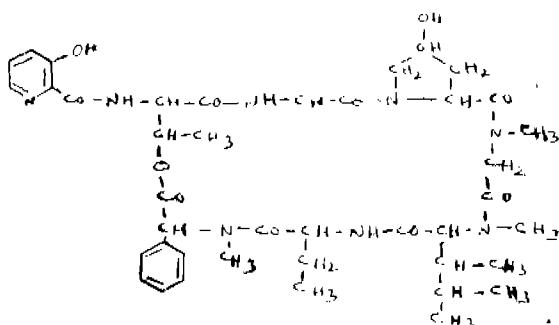
Application No. 846/Cal/77 filed June 7, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A method for preparing depsipeptide antibiotics, neoviridogrisein I, II or III having the formula I, II or III.





or mixture thereof, together with viridogrisein and griseoviridin, which comprises cultivating *Streptomyces* sp. P8648 (FERM-P 3562 and ATCC 31289) under aerobic conditions at a temperature comprised between 18 and 37°C in an aqueous nutrient medium containing assimilable sources of carbon and nitrogen and essential mineral salts at a pH comprised between about 6 and about 9, for a period of 2 to 14 days whereby the accumulated antibiotic are recovered from the fermentation broth; and optionally, isolating neoviridogriseins I, II or III, as single components by conventional isolation and purification methods.

CLASS 127D & I.

145263.

Int. Cl.-F16b 29/20.

A DEVICE FOR THE INTERMITTENT ROTATION OF A MACHINE SHAFT.

Applicant: SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, (WEST) GERMANY.

Inventor: BERND OHLEYER.

Application No. 2215/Cal/75 filed November 20, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A device for rotating a machine shaft such as a turbine rotor in a stepwise manner comprising a ratchet wheel securely fastened to the machine shaft of which axis of rotation is horizontal, a lifting rod (6), which is guided in a stationary sleeve (5), said lifting rod being disposed within said sleeve for vertical motion therein, a rectangular frame (10) rotatably suspended from the lower end of said lifting rod, the lower end of said frame comprising a pawl (15) for engagement of said ratchet wheel, said pawl being disposed so that it is normally located below the center of said shaft, whereby said pawl will engage said ratched wheel only during upward motion of said lifting rod and said rectangular frame so that said frame and pawl act in a pulling manner and means for moving said lifting rod (6) up and down.

CLASS 6A & 163C.

145264.

Int. Cl.-F04c 17/04, 19/00, 29/08.

ROTARY DISPLACEMENT COMPRESSOR WITH CAPACITY CONTROL.

Applicant: GRASSO'S KOENINKLIJK MACHINEFABRIEKEN N.V., OF PARALLELWEG 27, 'S-HERTOGENBOSCH, THE NETHERLANDS.

Inventor: JAN TONNIS KEIJER.

Application No. 173/Cal/76 filed January 31, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

Rotary displacement compressor, comprising a driven cylindrical rotor provided with spirally-extending grooves, with which the teeth of at least one gear are in sealing engagement, the plane of rotation of said one gear intersecting

the axis of rotation of the rotor, in which the rotor is disposed inside a close-fitting cylindrical casing and part of the gear or gears traverse the walls of said casing and in which the gas to be compressed is drawn-in through the open ends of the grooves at one head end of the rotor, and an exhaust port is present in the wall of the casing near and other head end of the rotor seen in the direction of rotation of the rotor in front of the gear or every gear, and a pressure pipe is connected to said exhaust port, characterized in that a return port is provided in the wall of the casing at the same axial height as each exhaust port, said return port being in communication with the suction chamber of the compressor via a return pipe, and in that a regulating ring is provided to rotate with respect to the casing and control the size of the return port from a completely closed position to a maximum open position and adjust simultaneously the size of the exhaust port in the reverse sense.

CLASS 71A.

145265.

Int. Cl.-E02f 5/30.

IMPROVEMENTS RELATING TO A BLADE USED IN BLAST IMPELLOR WHEELS AND A METHOD OF ASSEMBLING THE BLAST IMPELLOR WHEELS.

Applicant: TILGHMAN WHEELABRATOR LIMITED, OF BROADHEATH, ALTRINCHAM, CHERSHIRE, ENGLAND.

Inventor: WILLIAM ROBERTSON MACMILLIAN.

Application No. 1143/Cal/76 filed June 28, 1976.

Convention date October 24, 1975/(43721/75) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A blade for use in a blast impellor wheel, the blade being of I-configuration in transverse section, and the faces of the blade being identical with each face being symmetrical about a longitudinal axis and being able to be used as an abrasive throwing face, and each side flange of the blade being partially cut away adjacent one end of define a protrusion formed into a blunted nose pointing towards the other end of the blade.

CLASS 70C & 201D.

145266.

Int. Cl. B01k 3/00; C02b 1/82; 3/00.

APPARATUS FOR STERILISATION OF LIQUIDS BY MEANS OF ANODIC OXIDATION.

Applicant: SACHS SYSTEMTECHNIK GMBH., 372 SCHWEINFURT AM MAIN, JOHANN-GEORG-GADE-MANNSTRASSE 13, FEDERAL REPUBLIC OF GERMANY.

Inventor: MR. VOLKER EIBL.

Application No. 1584/Cal/75 filed August 13, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

Apparatus for the sterilisation of liquid in an electrolytic cell by means of anodic oxidation, comprising a throughflow housing with an inlet and an outlet for the liquid to be treated and a throughflow chamber connecting the inlet with the outlet, two main electrodes connectable with a voltage source and receiving the throughflow chamber between them and a plurality of auxiliary electrodes arranged between the insulated from the main electrodes, characterized in that the auxiliary electrodes (6, 13) have surfaces formed substantially parallel with the surfaces of the main electrodes (4, 5, 11, 12) in that the surfaces of the electrodes (main electrodes 4, 5, 11, 12 and auxiliary electrodes, 6, 13) are arranged parallel with the direction of flow and in that the intervals between the surfaces of each two adjacent electrodes (main electrodes and auxiliary electrodes) is less than or equal to three millimeters such that when the main electrodes (4, 5, 11, 12) are connected to a voltage source the potential difference between each two adjacent electrodes is always equal.

CLASS 33A.

145267.

Int. Cl. B22d 37/00.

PLATE STRUCTURE FOR A LIQUID METAL CONTAINER CLOSURE.

Applicant : METACON AG., OF OERLIKONERSTRASSE, 88,8057 ZURICH, SWITZERLAND.*Inventor* : BERNHARD TINNES.

Application No. 1970/Cal/75 filed October 10, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

3 Claims.

In a device for opening and closing the outlet bore of a vessel of the type used for containing molten metallic material where the device includes a protective casing having a through bore, a first plate member having an aperture therethrough aligned with said through bore, a second plate member having an aperture therethrough, said second plate member being mounted for sliding movement relative to said first plate member to move the aperture of said second plate member into and out of alignment with said aperture of said first plate member, an outlet casing having a through bore aligned with said aperture of said second plate member, said casings each having butt joint portions disposed adjacent said respective plate members and the surrounding said bores, the improvement comprising each of said plate members having engaging sealing surfaces and surfaces opposite said sealing surfaces, said opposite surfaces having means defining a groove and key connection for said casings said means on each of said opposite surfaces including a bead projecting from said respective opposite surfaces each bead having inner and outer flank surfaces with said beads surrounding said respective apertures in said plates said flank surfaces being concentric relative to each other about the axis of said bores of said casings and said apertures of said plate members said inner and outer flank surfaces being inclined toward one another and said inner flank surfaces each having a base disposed on a diameter which is greater than the diameter of said respective apertures.

CLASS 70C.

145268.

Int. Cl.-C23b 9/00.

IMPROVEMENTS IN OR RELATING TO PROCESS FOR ANODIC PHOSPHATING OF STEEL SUBSTRATES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-1, INDIA.*Inventors* : KUMMATTITHIDAL SANTHANAM RAJAGOPALAN, PENGACHARI SHRINIVASAN, NARAYANASWAMI KRITHIVASAN, CHAKRAVARTHI RAJAGOPAL, MUTHUVEERAN SETHUKUMARI, AND MELAY ERIYAT KOCHU JANAKI.

Application No. 2390/Cal/75 filed December 24, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

3 Claims. No drawings.

Improved process for anodic phosphating of steel substrates as per our prior Indian Patent No. 143411, characterised in that a pickled steel substrate is first given a precoat of zinc or iron-manganese alloy by conventional electroplating bath to obtain zinc phosphate, zinc iron phosphate or iron-manganese phosphate coatings.

CLASS 47A & B & C & 56G.

145269.

Int. Cl.C10b 53/04, 55/10, 57/02, 57/20.

PROCESS FOR THE CONTINUOUS HYDROCARBONIZATION OF COAL.

Applicant : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.*Inventors* : CHARLES WILLIAM ALBRIGHT, AND HUBERT GREENIDGE DAVIS.

Application No. 2393/Cal/75 filed December 26, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office, Calcutta.

22 Claims.

A process for the hydrocarbonization of coal particles employing a fluid-bed zone of hydrocarbonization consisting essentially of :

a. fluidizing said particles with a non-oxidizing gas such as herein described to form a dense phase;

b. pressurizing said particles with a hydrogen rich gas such as herein described;

c. preheating said coal particles in said dense phase in an essentially oxygen-free environment to a predetermined temperature below a temperature at which said coal particles undergo plastic transformation as herein defined;

d. providing a fluid-bed within said zone for hydrocarbonization at a reaction temperature of between about 480°C and 600°C, said fluid-bed comprising a matrix of non-agglomerating particles at said reaction temperature fluidized by a hydrogen-rich, oxygen-free gas;

e. continuously introducing said coal particles and a hydrogen-rich, oxygen-free conveying gas into the lower portion of said zone in an essentially vertically upward direction, said coal particles having a velocity sufficient to rapidly and uniformly disperse at said predetermined temperature, within said matrix.

f. continuously reacting said coal particles in said zone with hydrogen in said zone at said reaction temperature to produce a product comprising a condensable vapor and solid char.

g. maintaining the solids in said zone for an average residence time of about 5 to about 60 minutes and said vapor for about 10 to about 250 seconds;

h. maintaining the average hydrogen partial pressure in said zone at about 100 p.s.i. to about 1200 p.s.i.; and

i. continuously withdrawing from said zone said product vapor and solids.

CLASS 172D.

145270.

Int. Cl.-D01h 7/76.

SLIVER FEEDING APPARATUS FOR AN OPEN-END SPINNING DEVICE.

Applicant : SCHUBERT & SALZER MASCHINENFABRIK AKTIENGESELLSCHAFT, OF FRIEDRICH-EBER-STRASSE 84, 8070 INGOLSTADT, WEST GERMANY.*Inventors* : HANS LANDWEHRKAMP, (2) WERNER GERHARD HOEBER, (3) GEORGE GOLDAMMER, & RUDOLF OEXLER.

Application No. 167/Cal/76 filed January 29, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

Apparatus for feeding sliver to an open-end spinning device including a sliver opener roller and means for supplying the sliver to the sliver opener roller, wherein the sliver supply means includes a plurality of gripper stations at which a force can be applied to the sliver to resist the force pulling the sliver into the sliver opener roller, the gripper stations being located at different intervals from the sliver opener roller, which intervals correspond to the lengths of fibres to be spun, and selecting means for rendering the gripper station closest to the sliver opener roller active or inactive when sliver is being supplied by the sliver supply means to the sliver opener roller.

CLASS 131B.

145271.

Int. Cl.-E21c 5/00.

IMPROVEMENTS IN OR RELATING TO MINING MACHINE AND MINE INSTALLATIONS.

Applicant: PITCRAT LIMITED, OF PIONEER WORKS, MASON WAY, PLATTS COMMON INDUSTRIAL ESTATE, HOYLAND NETHER, NR. BARNSLEY, YORKSHIRE, ENGLAND.

Inventors: GERALD RICHARD OLDHAM PENTITH.

Application No. 1246/Cal/76 filed July 12, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims.

A longwall or shortwall mining machine comprising a machine haulage arrangement including an endless haulage chain carried by the machine, drive means including an electric motor within the machine to drive the endless chain for machine haulage purposes, and means extending from the machine and carrying an electrical pick up means, to pick up, in use, electrical energy from an electrical conductor extending in the direction of haulage of the machine.

CLASS 32F.

145272.

Int. Cl.-A01n 9/12; 9/20; 9/24 C07c 125/06.

A METHOD FOR PREPARING CARBAMATE-CARBAMOYL FLUORIDE COMPOUNDS.

Applicant: UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK, 10017, UNITED STATES OF AMERICA.

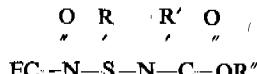
Inventor: WEI CHUAN LIANG.

Application No. 2135/Cal/76 filed November 30, 1976.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

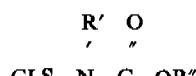
A method of preparing a compound of the formula:



which comprises reacting a compound of the formula:



with a compound of the formula



in the presence of an acid acceptor, wherein:

R and R' are the same or different and are alkyl groups having from one to four carbon atoms,

R'' is a substituted or unsubstituted alkyl, cycloalkyl, phenylalkyl naphthylalkyl or heterocycloalkyl group wherein the heterocyclic moiety is a five or six member alicyclic ring which includes in any combination, one or two oxygen, sulfur, sulfimyl or sulfonyl groups and which may also include one divalent amino, alkylamino or carbonyl group; wherein the permissible substituents on said groups are one or more halogen, nitrile, alkyl, alkylthio, alkoxy alkylsulfimyl, alkylsulfonyl, alkoxycarbonyloxyamino, or alkylcarbamylamino groups in any combination or R'' is alkoxyalkyleneoxyalkyl, alkoxy (dialkyleneoxy) alkyl or alkoxy (trialkyleneoxy) alkyl; with the proviso that except where R'' is alkyl, no single alkyl or alkyne moiety in any R'' group may include more than six carbon atoms.

CLASS 32F_{2a} & F_{2b} & F_{2c} & F_{2d}, & 55D₂.

145273.

Int. Cl.-A01n 9/12; 9/20; 9/24; C07c 125/06.

METHOD FOR PREPARING ASYMMETRICAL N-SUBSTITUTED BIS-CARBAMATE SULFIDE COMPOUNDS.

Applicant: UNION CARBIDE CORPORATION, OF 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

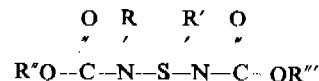
Inventor: WEI CHUAN LIANG.

Application No. 2136/Cal/76 filed November 30, 1976.

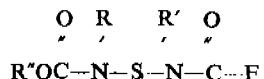
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

A method of preparing a compound of the formula:



which comprises reacting a compound of the formula:



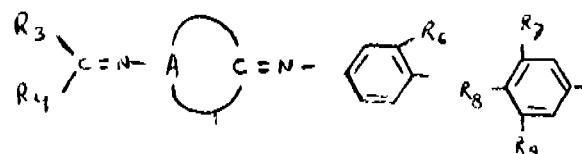
with a compound of the formula R''OH

in the presence of at least one equivalent of an acid acceptor wherein:

R and R' are individually alkyl radicals having from 1 to 4 carbon atoms;

R'' and R''' are different and are individually R₁ and R₂, wherein:

R₁ is naphthyl, benzothienyl, dihydrobenzofuranyl groups of formula I or formula II or formula III, or formula IV.



R₂ is other than R₁ and is a substituted or unsubstituted alkyl cycloalkyl, phenylalkyl, naphthylalkyl or a heterocycloalkyl group, wherein the heterocyclic moiety is a five-or-six-member ring which includes in any combination, one or two oxygen, sulfur, sulfimyl or sulfonyl groups and which may also include one divalent amino, alkylamino or carbonyl group;

wherein the permissible substituents on said groups are one or more halogen, nitrile, nitro, alkyl, alkylthio, alkoxy-

sulfinyl, alkylsulfonyl, alkoxy, alkoxy carbonylamino, or alkylcarbonylamino groups in any combination, or R_2 is alkoxyalkyleneoxylakyl, alkoxy (dialkyleneoxy) alkyl or alkoxy (trialkyleneoxy) alkyl; with the proviso that except where R_2 is alkyl, no single alkyl or alkylene moiety in any R_2 group may include more than six carbon atoms;

R_3 is hydrogen, alkyl, alkylthio or cyano;

R_4 is alkyl, alkylthio, alkoxy, alkanoyl or alkoxy carbonyl, all of which may be unsubstituted or alphabetically substituted in any combination with one or more cyano, nitro, alkylthio, alkylsulfinyl, alkylsulfonyl, alkoxy, aminocarbonyl, alkylaminocarbonyl, or dialkylaminocarbonyl groups or R_1 is phenyl, aminocarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl or a $R_1\text{CONH-}$ or R_1CON (alkyl)-group, where R_1 is hydrogen, alkyl, alkoxy or alkylthio; and

Δ is a divalent aliphatic chain, completing a five or six member ring which includes in any combination, one or two oxygen, sulfur, sulfinyl or sulfonyl groups and which may also include one divalent amino, alkylamino or carbonyl group;

R_5 is alkoxy, alkylthio, alkyl, alkylthioalkyl, 2-dioxolanyl or halogen;

R_6 is alkyl;

R_7 is hydrogen, alkyl, halogen, alkylthio, alkylsulfinyl, alkylsulfonyl, alkoxy, dialkylamino, formylamino, alkylcarbonylamino, alkoxy carbonylamino, alkoxy carbonylamino or dialkylamino, alkoxy carbonylamino, alkoxy carbonylamino or dialkylaminomethyleneimino;

R_8 is hydrogen or alkyl; with the proviso that the number of aliphatic carbon atoms in R_3 , R_4 , Δ , R_5 , R_6 , R_7 and R_8 , individually, may not exceed eight.

CLASS 94A.

145274.

Int. Cl: B02c 4/00.

IMPROVEMENTS RELATING TO VENTILATED TUBE MILLS AND A METHOD OF GRINDING CEMENT CLINKER IN SAID MILL.

Applicant: F. L. SMITH & CO. A/S. OF 77 VIGERSLEV ALLE, DK-2500 VALBY, COPENHAGEN, DENMARK.

Inventors: HELGE CARL CHRISTIAN KARTMAN.

Application No. 2189/Cal/76 filed December 13, 1976.

Convention date December 29, 1975 (52974/75) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A multi-compartment tube mill for grinding of coarse material, the mill being divided into two sections each containing one or more grinding chambers by a composite diaphragm, and having an inlet at one end for coarse material and an outlet at the opposite end for ground material, the inlet for the coarse material being combined with an inlet for air or gas to ventilate the mill and for heat exchange with the material, wherein the composite diaphragm defines a separation zone having a first set of peripheral openings in the mill shell for the withdrawal of the air or gas from the first section of the mill, a second set of peripheral openings through which fresh air or gas may be passed to the second section of the mill and separate passages for transferring the material from the first section of the mill to the second section.

OPPOSITION PROCEEDINGS

An opposition has been entered by Pile Foundation Constructions Co. (1) Pvt. Ltd. to the grant of a patent on application No. 143994 made by Council of Scientific and Industrial Research.

CORRECTION OF CLERICAL ERRORS

Under Section 78(1) of the Patents Act, 1970, certain clerical errors in the specification of patent No. 142305 were corrected on 4th August, 1978.

PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy:—

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114503 114633

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PATENTS SEALED

142094 142106 142195 142445 142493 142581 142713 142836

142929 142942 143114 143116 143125 143185 143281 143388

PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the

Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

| No. | Title of the invention |
|------------------|--|
| 72249 (20.4.72) | A method for obtaining tetracycline. |
| 76723 (20.4.72) | Process for preparing 6-substituted 3-(1, 1, 1-trifluoroethyl) thiomethyl-7-sulfonyl-3, 4-dihydr-azobenzo-1, 1-dioxo-1-thia-2, 4-diazines. |
| 77285 (20.4.72) | Process for the production of anthranilic acid derivatives. |
| 77431(20.4.72) | Process for preparing of 6-substituted 3-allylthiomethyl-2-sulfaaryl-3, 4-dihydrazobenzo-1, 1-dioxo-1-thia-2, 4-diazines. |
| 78001 (20.4.72) | Process for preparing novel isophthallic acid derivatives. |
| 79373 (20.4.72) | Process for preparing disaggregated γ -globulin. |
| 80852(20.4.72) | Process for preparing polycyclic aromatic diene compounds. |
| 85121 (20.4.72) | Process for production of N-(2, 3-dimethyl-phényl) anthranilic acid. |
| 90411(20.4.72) | Process for preparation of an α -aminobenzyl-penicillin arylsulfonate. |
| 104012(20.4.72) | Enrichment and/or separation of organic compounds by adsorption process. |
| 126056(20.4.72) | Process for preparing 6-aminocyclamido-penicillinic acids. |
| 131161(20.4.72) | A process for preparation of 21-deoxy-21-N N^2 diethyl piperazinyl 1-prednisolone. |
| 135117 (1.4.72) | An improved process for hard fast replacer. |
| 135253 (12.4.72) | Process for the preparation of triazolyl ethenyl-phenylene derivatives. |
| 136018 (29.4.72) | A method of separating ironchloride gases from the gas stream evolved from the chlorination of iron containing ores. |

RENEWAL FEES PAID

89426 89689 89725 89798 95877 96031 96190 101126
 101674 101785 106449 106657 106973 106983 107081 108889
 112229 112233 112344 112989 117095 117315 117553 117715
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CESSATION OF PATENTS

109620 109643 109645 109651 109674 109675 109676 109677
 109678 109723 109734 109743 109765 109833 109834 109880
 109955 109965 110110 110264 110337 110360 111729 111869
 112907 112921 112928 112931 112932 112991 112995 112997
 112999 113014 113017 113057 113086 113101 113138 113290
 113388 124250 141534

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1. No. 146064. Mrs. Kamlabai Narayan Rashinkar, 498, Shanwar Peth, Poona-30, Maharashtra State, India. "Clamping device for fuel tank". 26th September, 1977.

Class 1. Nos. 146994, 146095. Tmajirao Hirajirao Shinde, of Shri Yogeshwar Foundries, Industrial Estate, Gokul Road, Hubli, Karnataka State, India. "An Impeller". October 5, 1977.

Class 1. No. 146115. Swatantra Type Founders, Gandhi-nagar, Vijayawada-3, Andhra Pradesh, India. an Indian Partnership Concern. "Printing Type Faces". October 12, 1977.

Class 1. Nos. 146117, 146118 & 146119. Bhukhanvala Diamond Tools Private Limited, a Private Limited Company, Registered under the Indian Companies Act, Incorporated in India, at Medows House 4th floor, Nagindas Master Road, Fort, Bombay-400023, (State of Maharashtra) India. "Glass Cutters". October 12, 1977.

Class 1. No. 146121. Taj Traders, 1507/8, Sarai Khalil, Sadar Bazar, Delhi-110006, a firm registered under the Indian Partnership Act, 1932. "Stove". October 12, 1977.

Class 1. No. 146135. Daltalina Industries, 10, Amalangshu Sen Road, Calcutta-700 048, West Bengal, India, an Indian Partnership Firm. "Stove". October 15, 1977.

Class 1. Nos. 146135, 146137 & 146138. Paramount Trading Corporation Pvt. Ltd. Bhatti Street, Moradabad-244001, Uttar Pradesh, (an Indian Company) "Hukka". October 15, 1977.

Class 1. No. 146141. Bharat Plastic Works Co-operative Society Indstries Limited, registered at No. 171, under the Bombay Co-operative Societe Act, 1972 at 8648, Shidipura, Model Basti, New Dehi-110005, India. "Toy engine". October 17, 1977.

- Class 1. No. 146179. Jainsons Patent & Scale Industries, an Indian Partnership Concern, B-16/7, Jhilmil Industrial Area, Shahdara, Delhi-110032, India. "Counter Scale". October 28, 1977.
- Class 1. No. 146194. V. K. Saggi Industries, 73-B, Motia Khan, New Delhi, an Indian Proprietary Concern. "Gas Tandoor". November 5, 1977.
- Class 1. No. 146196. Ramesh Sharma, an Indian National of Pritam Electronics, S-469, Greater Kailash, New Delhi, India. "Earth Tester". November 8, 1977.
- Class 1. No. 146200. Union Carbide India Limited, an Indian Company, of 1, Middleton Street, Calcutta-700 016, West Bengal, India. "Flashlight". November 9, 1977.
- Class 1. No. 146221. Khandelwal Durables, an Indian proprietary firm, of B-965, Section 'A' Mahanagar, Lucknow-226006, U.P. India. "Lighter". November 16, 1977.
- Class 1. No. 146242. Sankar Type Foundry, Kallippadam, Shoranur-2, Kerala State, India, an Indian sole proprietor concern. "Malayalam type font" November 19, 1977.
- Class 1. No. 146252. Namdhari Metal Industries, Rajinder Nagar Industrial Area, P.O. Mohan Nagar, Ghaziabad, U.P. an Indian Partnership Concern. "A lid handle Bar (to be fixed with the handle of a pressure Cooker". November 14, 1977.
- Class 1. No. 146256. Friends Engineering Corporation, 2741, Mohalla Niharian, G.B. Road, Delhi-6, an Indian Partnership Firm. "Helmet Box". November 26, 1977.
- Class 3. No. 146065. Paros Electronics Private Ltd., 5, Community Centre, Naraina Industrial Estate, New Delhi-110028, an Indian company, incorporated under the companies Act, 1936. "Cassette Tape Recorder". September 27, 1977.
- Class 3. No. 146104. Uniroyal AG, a corporation organised under the laws of the District Court of Aachen, West Germany, having an office at D-5100 Aachen 1, Huettentrasse 7, West Germany "Tyre for a vehicle wheel" October 7, 1977.
- Class 3. No. 146107. Kemco Chemicals, 48B, Muktaram Babu Street, Calcutta-700007, West Bengal, India, an Indian Partnership Firm. "Container" October 10, 1977.
- Class 3. No. 146124. Shree Trading Co., 1st New Nagar das Road, Hingraj Bhuvan, Andheri (East), Bombay-400069, Maharashtra State, an Indian Partnership Firm. "Flour Mill", October 14, 1977.
- Class 3. No. 146134. Dunlop Limited, a British Company of Dunlop House, 25, Ryder Street, St. Jame's London SW1X 6PX, England "Tyre for a vehicle wheel". April 21, 1977. (U.K.).
- Class 3. No. 146140. Bharat Plastic Works Co-operative Society Industrial Limited, registered at No. 171, under the Bombay Co-operative Societies Act 1925, as amended to the State of Delhi Co-operative Societies Act, 1972 at 8648, Shidipura, Model Basti, New Delhi-110005, India. "Toy Engine". October 17, 1977.
- Class 3. No. 146151. Sarbjit Singh Uppal, an Indian National, trading as New Continental Industries, Naka Hindola, Lucknow-226004, Uttar Pradesh, India. "Plastic Sleeves", October 24, 1977.
- Class 3. No. 146186. Union Industries, Mohatta Bhavan, Worli, Bombay-400018, Maharashtra, an Indian Partnership Firm. "Parking Light" November 1, 1977.
- Class 3. No. 146201. Union Carbide India Limited, an Indian Company of 1, Middle-ton Street, Calcutta-700016, West Bengal, India, "Flash Light" November 9, 1977.
- Class 3. No. 146209. Choudhary Traders, 22, New Cutlery Market, Bombay-400002, Maharashtra, an Indian Proprietary Firm, "Decorative Lamp". November 11, 1977.
- Class 3. No. 146227. Rawji Industrial Corporation, a registered Indian Partnership Firm, at 111/115, Kazi Syed Street, Masjid, Bombay-400003, Maharashtra, India. "Seat" November 16, 1977.
- Class 3. No. 146231. Raj Electricals, 123, Hammarsmith Industrial Estate, Off Sitla Devi Temple Road, Mahim, Bombay-4000016, Maharashtra State, an Indian Proprietary concern. "Electric Line-Tester-Cum-Torch" November 17, 1977.
- Class 3. No. 146236. Vecson Industries 207, Cutlery Market, Janjikar Street Bombay-400003, Maharashtra, an Indian Partnership Firm. "Hand Magnifier" November 17, 1977.
- Class 3. No. 146241. J. B. Manufacturing Co., an registered Indian Partnership Firm of 348, Abdul Rehman Street, Bombay-400004, Maharashtra, India. "Lighter" November 19, 1977.
- Class 3. No. 146243. Hari Bhagat, Indian National, of 21/6, Hadapsar Industrial Estate, Hadapsar, Pune-411013, State of Maharashtra, India. "Eraser" November 21, 1977.
- Class 3. No. 146247. Vecson Industries, 207, Cutlery Market, Janjikar Street, Bombay-400003, Maharashtra, India, an Indian Partnership Firm. "Hand Magnifier". November 23, 1977.
- Class 3. No. 146255. Vishal Engineering Co., 528, Gali Bazazan, Sadar—Bazar, Delhi-6, an Indian Partnership Firm. "Rattle" November-26, 1977.
- Class 4. No. 146142. Modern Industries, Block No. 36, Sainath Industrial Estate, No. 2, Off Aarey Road, Goregaon (East), Bombay-400063, Maharashtra, an Indian Proprietary Concern. "Bottle" October 17, 1977.
- Class 10. No. 146113. Maya Plastic Industries, Shed No. 7, Udyognagar, Chitra, Bhavnagar, Gujarat State, an Indian Proprietary Firm. "Footwear" October 12, 1977.
- Class 10. No. 146116. Bhikhubhai Laxmichand Mehta, an Indian National Trading as Cosy Plastics, Ramchandra Lane Extension, Malad (West), Bombay-400064, State of Maharashtra, India. "A Footwear". October 12, 1977.
- Class 10. No. 146167. Sports Equipment Pvt. Ltd., an Indian Company, of 5A Wing 11 Hans Bhavan, Bahadur Shah Zafar Marg, New Delhi-110002, India "Shoes" October 27, 1977.

Class 10. Nos. 146245 & 146246. State Footwear (India) 9, Industrial Area, Tilak Nagar, New Delhi-110018, an Indian Partnership concern. "Footwear". November 21, 1977.

Indian proprietary Firm. "Biscuit". November 1, 1977.

Class 12. No. 146185. Jaymes Products, 53, Industrial Area, Ulhasnagar-421004, Maharashtra State, an

S. VEDARAMAN.
Controller-General of Patents, Design
and Trade Marks.